

# Work Order ID 148573

Tuesday, July 05, 2016 3:07:38 PM

**\*148573\***

Page 1

Item ID: D2561 Accept **\*N900040100\*** Setup Start **\*NS1\***  
 Revision ID: Stop **\*NS2\***  
 Item Name: Lug  
 Start Date: 6/30/2016 Start Qty: 14.00 **\*14\*** 16 *SK* Cust Item ID:  
 Required Date: 7/5/2016 Req'd Qty: 14.00 **\*14\*** 16 Customer:  
 Reference:

Approvals: Process Plan: DAS Date: JUL 12 2016 Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start **\*NR1\***  
 QC: 21 Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop **\*NR2\***  
9-89

| Sequence ID/<br>Work Center ID | Operation<br>Description                                                                   | Set Up/<br>Run Hours | Tool ID | Tool # | Plan<br>Code | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp       |
|--------------------------------|--------------------------------------------------------------------------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------------|
| <b>Draw Nbr</b>                | <b>Revision Nbr</b>                                                                        |                      |         |        |              |               |               |                  |                      |
| D2561                          | Rev B                                                                                      |                      |         |        |              |               |               |                  | <i>PR 2016/08/08</i> |
| 100                            | FLOW WATER JET                                                                             | 0.00                 |         |        |              |               |               |                  |                      |
| <b>*100*</b>                   |                                                                                            |                      |         |        |              |               |               |                  |                      |
| Waterjet                       | <b>Memo</b>                                                                                | 0.09                 |         |        |              |               |               |                  |                      |
| FLOW CNC Waterjet              | 1-Cut as per Dwg D2561<br>Dwg Rev: <u>B</u><br>Prog Rev: <u>B</u><br>2-Deburr if necessary |                      |         |        |              |               |               |                  |                      |
| 110                            | QC2- Inspect parts off machine FAI/FAIB                                                    | 0.00                 |         |        |              |               |               |                  |                      |
| <b>*110*</b>                   |                                                                                            |                      |         |        |              |               |               |                  |                      |
| QC                             | <b>Memo</b>                                                                                | 0.02                 |         |        |              |               |               |                  |                      |
| Quality Control                |                                                                                            |                      |         |        |              |               |               |                  |                      |
| 120                            | QC8- Inspect parts - second check                                                          | 0.00                 |         |        |              |               |               |                  |                      |
| <b>*120*</b>                   |                                                                                            |                      |         |        |              |               |               |                  |                      |
| QC                             | <b>Memo</b>                                                                                | 0.05                 |         |        |              |               |               |                  |                      |
| Quality Control                |                                                                                            |                      |         |        |              |               |               |                  |                      |

DAS  
38  
9-89  
AUG 09 2016

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

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| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ |                                     | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/> |                                        | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><table style="width:100%; border: none;"> <tr> <td style="width:15%;">Skid-tube <input type="checkbox"/></td> <td style="width:15%;">Cross tube <input type="checkbox"/></td> <td style="width:15%;">Water Jet <input type="checkbox"/></td> <td style="width:15%;">Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table> |                                   |                                             |                                           |                                              |                                           | Skid-tube <input type="checkbox"/>     | Cross tube <input type="checkbox"/>         | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/>  | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/>          | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/>           | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/>                 | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/>       | Supplier <input type="checkbox"/> |                                                |                                 |                                                 |                                |                                   |                                     |                                             |                                        |                                           |                                 |                                    |                                               |                                                            |                                        |                                      |                                        |                                                          |                                      |                                           |                                        |                                |                               |                                             |                                          |                                  |                                     |                                       |                                                |                                           |                                             |                                               |                                         |                                            |                                     |                                  |                                 |                                  |                                           |
| Skid-tube <input type="checkbox"/>                           | Cross tube <input type="checkbox"/> | Water Jet <input type="checkbox"/>                                                                                                                                                 | Engineering <input type="checkbox"/>   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                   |                                             |                                           |                                              |                                           |                                        |                                             |                                    |                                       |                                    |                                    |                                            |                                           |                                        |                                              |                                              |                                                |                                    |                                          |                                   |                                                |                                 |                                                 |                                |                                   |                                     |                                             |                                        |                                           |                                 |                                    |                                               |                                                            |                                        |                                      |                                        |                                                          |                                      |                                           |                                        |                                |                               |                                             |                                          |                                  |                                     |                                       |                                                |                                           |                                             |                                               |                                         |                                            |                                     |                                  |                                 |                                  |                                           |
| Machining <input type="checkbox"/>                           | Small Fab <input type="checkbox"/>  | Prod. Eng. Coord. <input type="checkbox"/>                                                                                                                                         | Quality <input type="checkbox"/>       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                   |                                             |                                           |                                              |                                           |                                        |                                             |                                    |                                       |                                    |                                    |                                            |                                           |                                        |                                              |                                              |                                                |                                    |                                          |                                   |                                                |                                 |                                                 |                                |                                   |                                     |                                             |                                        |                                           |                                 |                                    |                                               |                                                            |                                        |                                      |                                        |                                                          |                                      |                                           |                                        |                                |                               |                                             |                                          |                                  |                                     |                                       |                                                |                                           |                                             |                                               |                                         |                                            |                                     |                                  |                                 |                                  |                                           |
| Thermoforming <input type="checkbox"/>                       | Finishing <input type="checkbox"/>  | Rec/Store/Packaging <input type="checkbox"/>                                                                                                                                       | Other <input type="checkbox"/>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                   |                                             |                                           |                                              |                                           |                                        |                                             |                                    |                                       |                                    |                                    |                                            |                                           |                                        |                                              |                                              |                                                |                                    |                                          |                                   |                                                |                                 |                                                 |                                |                                   |                                     |                                             |                                        |                                           |                                 |                                    |                                               |                                                            |                                        |                                      |                                        |                                                          |                                      |                                           |                                        |                                |                               |                                             |                                          |                                  |                                     |                                       |                                                |                                           |                                             |                                               |                                         |                                            |                                     |                                  |                                 |                                  |                                           |
| Large Fab <input type="checkbox"/>                           | Composite <input type="checkbox"/>  | Supplier <input type="checkbox"/>                                                                                                                                                  |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                   |                                             |                                           |                                              |                                           |                                        |                                             |                                    |                                       |                                    |                                    |                                            |                                           |                                        |                                              |                                              |                                                |                                    |                                          |                                   |                                                |                                 |                                                 |                                |                                   |                                     |                                             |                                        |                                           |                                 |                                    |                                               |                                                            |                                        |                                      |                                        |                                                          |                                      |                                           |                                        |                                |                               |                                             |                                          |                                  |                                     |                                       |                                                |                                           |                                             |                                               |                                         |                                            |                                     |                                  |                                 |                                  |                                           |
| Date :                                                       |                                     | Step #:                                                                                                                                                                            |                                        | QTY Effective :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                   |                                             | MRB (QSI042) Approval                     |                                              |                                           |                                        |                                             |                                    |                                       |                                    |                                    |                                            |                                           |                                        |                                              |                                              |                                                |                                    |                                          |                                   |                                                |                                 |                                                 |                                |                                   |                                     |                                             |                                        |                                           |                                 |                                    |                                               |                                                            |                                        |                                      |                                        |                                                          |                                      |                                           |                                        |                                |                               |                                             |                                          |                                  |                                     |                                       |                                                |                                           |                                             |                                               |                                         |                                            |                                     |                                  |                                 |                                  |                                           |
| Description Work Order Deviation                             |                                     |                                                                                                                                                                                    |                                        | Disposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                   |                                             |                                           | Completed By                                 |                                           |                                        |                                             |                                    |                                       |                                    |                                    |                                            |                                           |                                        |                                              |                                              |                                                |                                    |                                          |                                   |                                                |                                 |                                                 |                                |                                   |                                     |                                             |                                        |                                           |                                 |                                    |                                               |                                                            |                                        |                                      |                                        |                                                          |                                      |                                           |                                        |                                |                               |                                             |                                          |                                  |                                     |                                       |                                                |                                           |                                             |                                               |                                         |                                            |                                     |                                  |                                 |                                  |                                           |
|                                                              |                                     |                                                                                                                                                                                    |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                   |                                             |                                           | Lead hand / Supervisor Approval Verification |                                           |                                        |                                             |                                    |                                       |                                    |                                    |                                            |                                           |                                        |                                              |                                              |                                                |                                    |                                          |                                   |                                                |                                 |                                                 |                                |                                   |                                     |                                             |                                        |                                           |                                 |                                    |                                               |                                                            |                                        |                                      |                                        |                                                          |                                      |                                           |                                        |                                |                               |                                             |                                          |                                  |                                     |                                       |                                                |                                           |                                             |                                               |                                         |                                            |                                     |                                  |                                 |                                  |                                           |
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|                                                              |                                     |                                                                                                                                                                                    |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                   |                                             |                                           |                                              |                                           | QC / QA Coordinator Approval           |                                             |                                    |                                       |                                    |                                    |                                            |                                           |                                        |                                              |                                              |                                                |                                    |                                          |                                   |                                                |                                 |                                                 |                                |                                   |                                     |                                             |                                        |                                           |                                 |                                    |                                               |                                                            |                                        |                                      |                                        |                                                          |                                      |                                           |                                        |                                |                               |                                             |                                          |                                  |                                     |                                       |                                                |                                           |                                             |                                               |                                         |                                            |                                     |                                  |                                 |                                  |                                           |
| Root Cause                                                   |                                     | FAULT CATEGORY                                                                                                                                                                     |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                   |                                             |                                           |                                              |                                           |                                        |                                             |                                    |                                       |                                    |                                    |                                            |                                           |                                        |                                              |                                              |                                                |                                    |                                          |                                   |                                                |                                 |                                                 |                                |                                   |                                     |                                             |                                        |                                           |                                 |                                    |                                               |                                                            |                                        |                                      |                                        |                                                          |                                      |                                           |                                        |                                |                               |                                             |                                          |                                  |                                     |                                       |                                                |                                           |                                             |                                               |                                         |                                            |                                     |                                  |                                 |                                  |                                           |
| Environment <input type="checkbox"/>                         | Design <input type="checkbox"/>     | Doc/Data <input type="checkbox"/>                                                                                                                                                  | Equip/Tooling <input type="checkbox"/> | Handling/Pre <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Material <input type="checkbox"/> | Internal Transport <input type="checkbox"/> | Tribal Knowledge <input type="checkbox"/> | Substation <input type="checkbox"/>          | Past Expiry Date <input type="checkbox"/> | Misidentified <input type="checkbox"/> | No Re-verification <input type="checkbox"/> | Operator <input type="checkbox"/>  | Offset/Setup <input type="checkbox"/> | Supplier <input type="checkbox"/>  | Training <input type="checkbox"/>  | Use for Testing <input type="checkbox"/>   | Poor Information <input type="checkbox"/> | Rushing <input type="checkbox"/>       | Product Improvement <input type="checkbox"/> | Process Improvement <input type="checkbox"/> | Manufacturing Process <input type="checkbox"/> | Past Due <input type="checkbox"/>  | Pressure/Forced <input type="checkbox"/> | Bending <input type="checkbox"/>  | Centre Not Concentric <input type="checkbox"/> | Cracks <input type="checkbox"/> | Crimp/Kink/Ripple/Wave <input type="checkbox"/> | Cuffs <input type="checkbox"/> | Crushing <input type="checkbox"/> | Heat Treat <input type="checkbox"/> | Wave/Twist in Tube <input type="checkbox"/> | Marks/Chatter <input type="checkbox"/> | Temperature/Cure <input type="checkbox"/> | Set-up <input type="checkbox"/> | BOM/Route <input type="checkbox"/> | Broken/Damage/Defect <input type="checkbox"/> | Inspection Incomplete/Unqualified <input type="checkbox"/> | Contamination <input type="checkbox"/> | Countersink <input type="checkbox"/> | Cut Too Short <input type="checkbox"/> | Instructions Incomplete/Unclear <input type="checkbox"/> | Drill Holes <input type="checkbox"/> | Power Loss/Surge <input type="checkbox"/> | Folio/Program <input type="checkbox"/> | Grain <input type="checkbox"/> | Weld <input type="checkbox"/> | Wrong Stock Pulled <input type="checkbox"/> | Out of Sequence <input type="checkbox"/> | Off-set <input type="checkbox"/> | Mislabeled <input type="checkbox"/> | Fit/Function <input type="checkbox"/> | Misaligned/off center <input type="checkbox"/> | Positioned Wrong <input type="checkbox"/> | Outside Dimensions <input type="checkbox"/> | Over/Under tolerance <input type="checkbox"/> | Part Incorrect <input type="checkbox"/> | Part Lost/Missing <input type="checkbox"/> | Part Moved <input type="checkbox"/> | Drawing <input type="checkbox"/> | Finish <input type="checkbox"/> | Misread <input type="checkbox"/> | Turning Sequence <input type="checkbox"/> |
|                                                              |                                     |                                                                                                                                                                                    |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                   |                                             |                                           |                                              |                                           |                                        |                                             |                                    |                                       |                                    |                                    |                                            |                                           |                                        |                                              |                                              |                                                | OTHER :                            |                                          |                                   |                                                |                                 |                                                 |                                |                                   |                                     |                                             |                                        |                                           |                                 |                                    |                                               |                                                            |                                        |                                      |                                        |                                                          |                                      |                                           |                                        |                                |                               |                                             |                                          |                                  |                                     |                                       |                                                |                                           |                                             |                                               |                                         |                                            |                                     |                                  |                                 |                                  |                                           |

**Work Order ID 148573**

Tuesday, July 05, 2016 3:07:38 PM

**\*148573\***

Page 2

Item ID: D2561

Accept

**\*N900040100\***Setup Start **\*NS1\***

Revision ID:

Stop **\*NS2\***

Item Name: Lug

Start Date: 6/30/2016 Start Qty: 14.00

**\*14\***

Cust Item ID:

Required Date: 7/5/2016 Req'd Qty: 14.00

**\*14\***

Customer:

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start **\*NR1\***

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop **\*NR2\***

| Sequence ID/<br>Work Center ID                | Operation<br>Description                                                                                | Set Up/<br>Run Hours             | Tool ID | Tool # | Plan<br>Code | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
| 140<br><b>*140*</b><br>QC<br>Quality Control  | QC5- Inspect part completeness to step on W/O<br><br>Memo <i>WA</i>                                     | 0.00<br><br>DAS<br>38<br>9:00:05 |         |        |              |               |               |                  |                |
| 150<br><b>*150*</b><br>Packaging<br>Packaging | Identify as per dwg & Stock Location: _____<br><br>Memo<br>*** STOCK IN STEP CELL ***<br>LOCATION WA003 | 0.00<br><br>0.02                 |         |        |              |               |               |                  |                |
| 160<br><b>*160*</b><br>QC<br>Quality Control  | QC21- Final Inspection - Work Order Release<br><br>Memo                                                 | 0.00<br><br>0.23                 |         |        |              |               |               |                  |                |

*16* *PC* **AUG 09 2016**  
*16 counted* **AUG 09 2016**

*16/8/9* *JH*

*JH* **AUG 18 2016**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

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| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>             Skid-tube <input type="checkbox"/><br/>             Machining <input type="checkbox"/><br/>             Thermoforming <input type="checkbox"/><br/>             Large Fab <input type="checkbox"/> </div> <div>             Cross tube <input type="checkbox"/><br/>             Small Fab <input type="checkbox"/><br/>             Finishing <input type="checkbox"/><br/>             Composite <input type="checkbox"/> </div> <div>             Water Jet <input type="checkbox"/><br/>             Prod. Eng. Coord. <input type="checkbox"/><br/>             Rec/Store/Packaging <input type="checkbox"/><br/>             Supplier <input type="checkbox"/> </div> <div>             Engineering <input type="checkbox"/><br/>             Quality <input type="checkbox"/><br/>             Other <input type="checkbox"/> </div> </div> |  |  |  |                                                                                                                    |  |
| Date :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | Step #:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | QTY Effective :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  | MRB (QSI042) Approval                                                                                              |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | Disposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  | Completed By<br><br><br>Lead hand / Supervisor<br>Approval Verification<br><br><br>QC / QA Coordinator<br>Approval |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |                                                                                                                    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |                                                                                                                    |  |
| <b>Root Cause</b><br><div style="display: flex;"> <div style="flex: 1;"> <input type="checkbox"/> Environment<br/> <input type="checkbox"/> Design<br/> <input type="checkbox"/> Doc/Data<br/> <input type="checkbox"/> Equip/Tooling<br/> <input type="checkbox"/> Handling/Pre<br/> <input type="checkbox"/> Material<br/> <input type="checkbox"/> Internal Transport<br/> <input type="checkbox"/> Tribal Knowledge<br/> <input type="checkbox"/> LOA<br/> <input type="checkbox"/> Substation<br/> <input type="checkbox"/> Past Expiry Date<br/> <input type="checkbox"/> Misidentified           </div> <div style="flex: 1;"> <input type="checkbox"/> No Re-verification<br/> <input type="checkbox"/> Operator<br/> <input type="checkbox"/> Offset/Setup<br/> <input type="checkbox"/> Supplier<br/> <input type="checkbox"/> Training<br/> <input type="checkbox"/> Use for Testing<br/> <input type="checkbox"/> Poor Information<br/> <input type="checkbox"/> Rushing<br/> <input type="checkbox"/> Product Improvement<br/> <input type="checkbox"/> Process Improvement<br/> <input type="checkbox"/> Manufacturing Process<br/> <input type="checkbox"/> Past Due           </div> </div> |  | <b>FAULT CATEGORY</b><br><div style="display: flex;"> <div style="flex: 1;"> <input type="checkbox"/> Pressure/Forced<br/> <input type="checkbox"/> Bending<br/> <input type="checkbox"/> Centre Not Concentric<br/> <input type="checkbox"/> Cracks<br/> <input type="checkbox"/> Crimp/Kink/Ripple/Wave<br/> <input type="checkbox"/> Cuffs<br/> <input type="checkbox"/> Crushing<br/> <input type="checkbox"/> Heat Treat<br/> <input type="checkbox"/> Wave/Twist in Tube<br/> <input type="checkbox"/> Marks/Chatter           </div> <div style="flex: 1;"> <input type="checkbox"/> Temperature/Cure<br/> <input type="checkbox"/> Set-up<br/> <input type="checkbox"/> BOM/Route<br/> <input type="checkbox"/> Broken/Damage/Defect<br/> <input type="checkbox"/> Inspection Incomplete/Unqualified<br/> <input type="checkbox"/> Contamination<br/> <input type="checkbox"/> Countersink<br/> <input type="checkbox"/> Cut Too Short<br/> <input type="checkbox"/> Instructions Incomplete/Unclear<br/> <input type="checkbox"/> Drill Holes           </div> <div style="flex: 1;"> <input type="checkbox"/> Power Loss/Surge<br/> <input type="checkbox"/> Folio/Program<br/> <input type="checkbox"/> Grain<br/> <input type="checkbox"/> Weld<br/> <input type="checkbox"/> Wrong Stock Pulled<br/> <input type="checkbox"/> Out of Sequence<br/> <input type="checkbox"/> Off-set<br/> <input type="checkbox"/> Mislabeled<br/> <input type="checkbox"/> Fit/Function<br/> <input type="checkbox"/> Misaligned/off center           </div> <div style="flex: 1;"> <input type="checkbox"/> Positioned Wrong<br/> <input type="checkbox"/> Outside Dimensions<br/> <input type="checkbox"/> Over/Under tolerance<br/> <input type="checkbox"/> Part Incorrect<br/> <input type="checkbox"/> Part Lost/Missing<br/> <input type="checkbox"/> Part Moved<br/> <input type="checkbox"/> Drawing<br/> <input type="checkbox"/> Finish<br/> <input type="checkbox"/> Misread<br/> <input type="checkbox"/> Turning Sequence           </div> </div> |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |                                                                                                                    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | OTHER : _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |                                                                                                                    |  |

# Picklist Print

Tuesday, July 05, 2016 3:07:37 PM

Page 1

Work Order ID: 148573

**\*148573\***

Parent Item: D2561

**\*D2561\***

Parent Item Name: Lug

Start Date: 6/30/2016

Required Date: 7/5/2016

Start Qty: 14.00

Required Qty: 14.00

Comments: IPP C 00.05.19Added inspect level 8EC  
IPP Rev:D Now on Waterjet 06-06-14 JLM

| Component Item ID/<br>Item Name | Replacement<br>Item ID | Mfg/<br>Purch | Bin<br>Item | Primary<br>Location | Last<br>Location | Route<br>Seq ID | Unit of<br>Measure | Qty on<br>Hand | Qty per Kit | Total<br>Qty | Qty<br>Issued | Date<br>Issued | Status |
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|--------|
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|--------|

M6061T6S.250

Purchased

No

sf

34.9000

2.063158

**\*M6061T6S 250\***

**\*\***

PR 2016/08/08

6061T6 SHEET .250

Location

Loc Qty

Loc Code

MAT020

34.9

m131352

34.9

2

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

|                                                              |  |                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |                                                                                                                   |  |
|--------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-------------------------------------------------------------------------------------------------------------------|--|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ |  | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/> |  | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>             Skid-tube <input type="checkbox"/><br/>             Machining <input type="checkbox"/><br/>             Thermoforming <input type="checkbox"/><br/>             Large Fab <input type="checkbox"/> </div> <div>             Cross tube <input type="checkbox"/><br/>             Small Fab <input type="checkbox"/><br/>             Finishing <input type="checkbox"/><br/>             Composite <input type="checkbox"/> </div> <div>             Water Jet <input type="checkbox"/><br/>             Prod. Eng. Coord. <input type="checkbox"/><br/>             Rec/Store/Packaging <input type="checkbox"/><br/>             Supplier <input type="checkbox"/> </div> <div>             Engineering <input type="checkbox"/><br/>             Quality <input type="checkbox"/><br/>             Other <input type="checkbox"/> </div> </div> |  |  |  |                                                                                                                   |  |
| Date :                                                       |  | Step #:                                                                                                                                                                            |  | QTY Effective :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  | <b>MRB (QSI042) Approval</b><br><br><div style="border: 1px solid black; height: 150px; margin-top: 10px;"></div> |  |
| Description Work Order Deviation                             |  |                                                                                                                                                                                    |  | Disposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |                                                                                                                   |  |
|                                                              |  |                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |                                                                                                                   |  |
|                                                              |  |                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |                                                                                                                   |  |
|                                                              |  |                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  | Completed By                                                                                                      |  |
|                                                              |  |                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  | Lead hand / Supervisor<br>Approval Verification                                                                   |  |
|                                                              |  |                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  | QC / QA Coordinator<br>Approval                                                                                   |  |

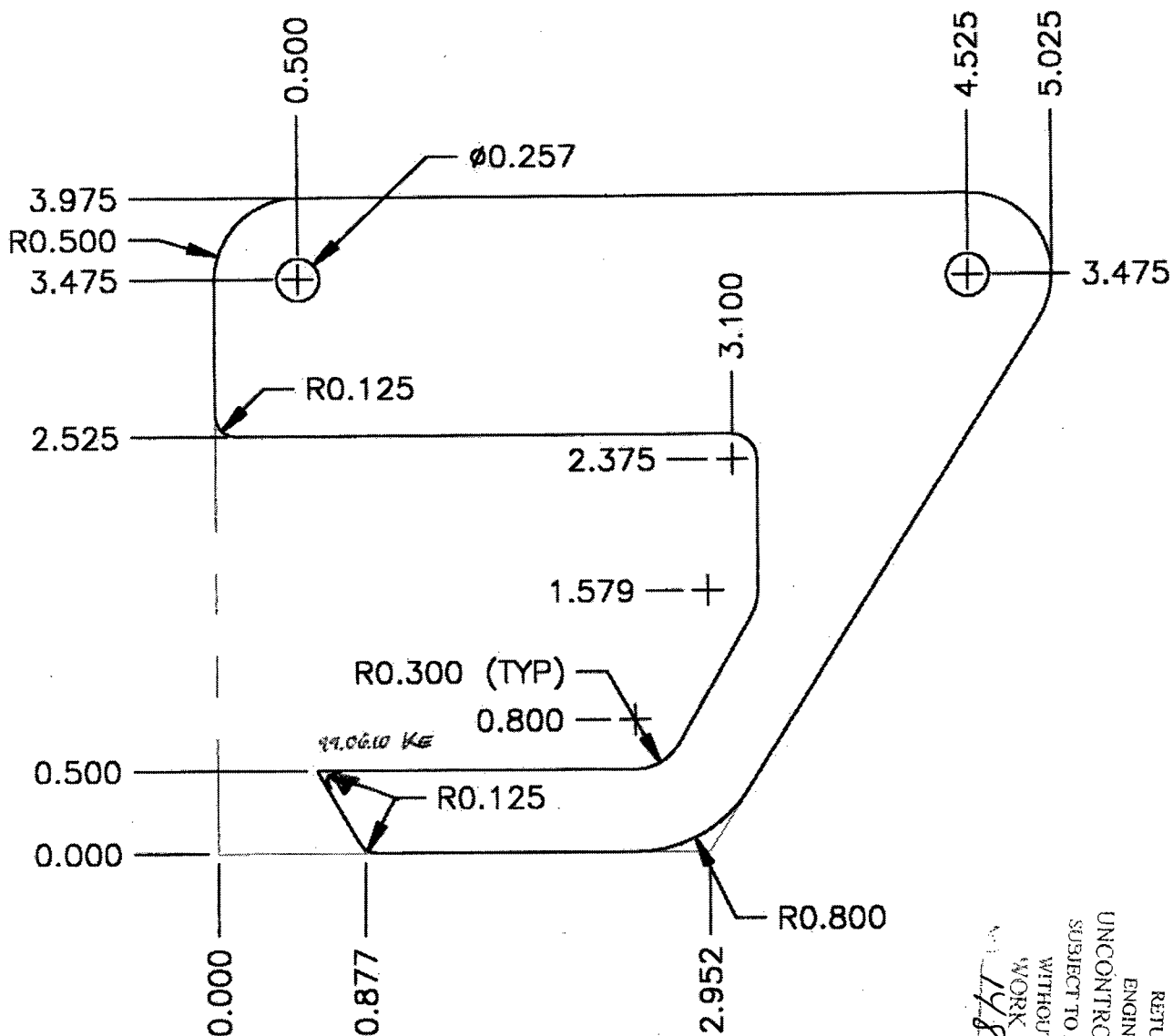
| Root Cause                                  |                          |                                                |                          | FAULT CATEGORY                                  |                          |                                                            |                          |
|---------------------------------------------|--------------------------|------------------------------------------------|--------------------------|-------------------------------------------------|--------------------------|------------------------------------------------------------|--------------------------|
| Environment <input type="checkbox"/>        | <input type="checkbox"/> | No Re-verification <input type="checkbox"/>    | <input type="checkbox"/> | Pressure/Forced <input type="checkbox"/>        | <input type="checkbox"/> | Temperature/Cure <input type="checkbox"/>                  | <input type="checkbox"/> |
| Design <input type="checkbox"/>             | <input type="checkbox"/> | Operator <input type="checkbox"/>              | <input type="checkbox"/> | Bending <input type="checkbox"/>                | <input type="checkbox"/> | Set-up <input type="checkbox"/>                            | <input type="checkbox"/> |
| Doc/Data <input type="checkbox"/>           | <input type="checkbox"/> | Offset/Setup <input type="checkbox"/>          | <input type="checkbox"/> | Centre Not Concentric <input type="checkbox"/>  | <input type="checkbox"/> | BOM/Route <input type="checkbox"/>                         | <input type="checkbox"/> |
| Equip/Tooling <input type="checkbox"/>      | <input type="checkbox"/> | Supplier <input type="checkbox"/>              | <input type="checkbox"/> | Cracks <input type="checkbox"/>                 | <input type="checkbox"/> | Broken/Damage/Defect <input type="checkbox"/>              | <input type="checkbox"/> |
| Handling/Pre <input type="checkbox"/>       | <input type="checkbox"/> | Training <input type="checkbox"/>              | <input type="checkbox"/> | Crimp/Kink/Ripple/Wave <input type="checkbox"/> | <input type="checkbox"/> | Inspection Incomplete/Unqualified <input type="checkbox"/> | <input type="checkbox"/> |
| Material <input type="checkbox"/>           | <input type="checkbox"/> | Use for Testing <input type="checkbox"/>       | <input type="checkbox"/> | Cuffs <input type="checkbox"/>                  | <input type="checkbox"/> | Contamination <input type="checkbox"/>                     | <input type="checkbox"/> |
| Internal Transport <input type="checkbox"/> | <input type="checkbox"/> | Poor Information <input type="checkbox"/>      | <input type="checkbox"/> | Crushing <input type="checkbox"/>               | <input type="checkbox"/> | Countersink <input type="checkbox"/>                       | <input type="checkbox"/> |
| Tribal Knowledge <input type="checkbox"/>   | <input type="checkbox"/> | Rushing <input type="checkbox"/>               | <input type="checkbox"/> | Heat Treat <input type="checkbox"/>             | <input type="checkbox"/> | Cut Too Short <input type="checkbox"/>                     | <input type="checkbox"/> |
| LOA <input type="checkbox"/>                | <input type="checkbox"/> | Product Improvement <input type="checkbox"/>   | <input type="checkbox"/> | Wave/Twist in Tube <input type="checkbox"/>     | <input type="checkbox"/> | Instructions Incomplete/Unclear <input type="checkbox"/>   | <input type="checkbox"/> |
| Substation <input type="checkbox"/>         | <input type="checkbox"/> | Process Improvement <input type="checkbox"/>   | <input type="checkbox"/> | Marks/Chatter <input type="checkbox"/>          | <input type="checkbox"/> | Drill Holes <input type="checkbox"/>                       | <input type="checkbox"/> |
| Past Expiry Date <input type="checkbox"/>   | <input type="checkbox"/> | Manufacturing Process <input type="checkbox"/> | <input type="checkbox"/> | <b>OTHER :</b> _____<br>_____<br>_____          |                          |                                                            |                          |
| Misidentified <input type="checkbox"/>      | <input type="checkbox"/> | Past Due <input type="checkbox"/>              | <input type="checkbox"/> |                                                 |                          |                                                            |                          |





|            |            |                                                              |              |
|------------|------------|--------------------------------------------------------------|--------------|
| DESIGN     | DRAWN BY   | DART AEROSPACE LTD<br>VICTORIA INTERNATIONAL AIRPORT, CANADA |              |
| B WILLIAMS | B WILLIAMS | DRAWING NO.                                                  | REV. B       |
| CHECKED    | APPROVED   | D2561                                                        | SHEET 1 OF 1 |
| DATE       |            | TITLE                                                        | SCALE        |
| 96.04.26   |            | LUG PLATE                                                    | 1:1          |

RELEASED  
96 05 06



MATERIAL: 6061-T6 0.25 THICK  
OR 6063-T6 0.25 THICK  
OR 5052-H34 0.25 THICK

160712  
148533  
WORK ORDER  
WITHOUT NOTICE  
UNCONTROLLED COPY  
SUBJECT TO AMENDMENT  
ENGINEERING  
RETURN TO  
SHOP COPY